BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

Fig. 1

Study of the release of DNA at pH 5.0

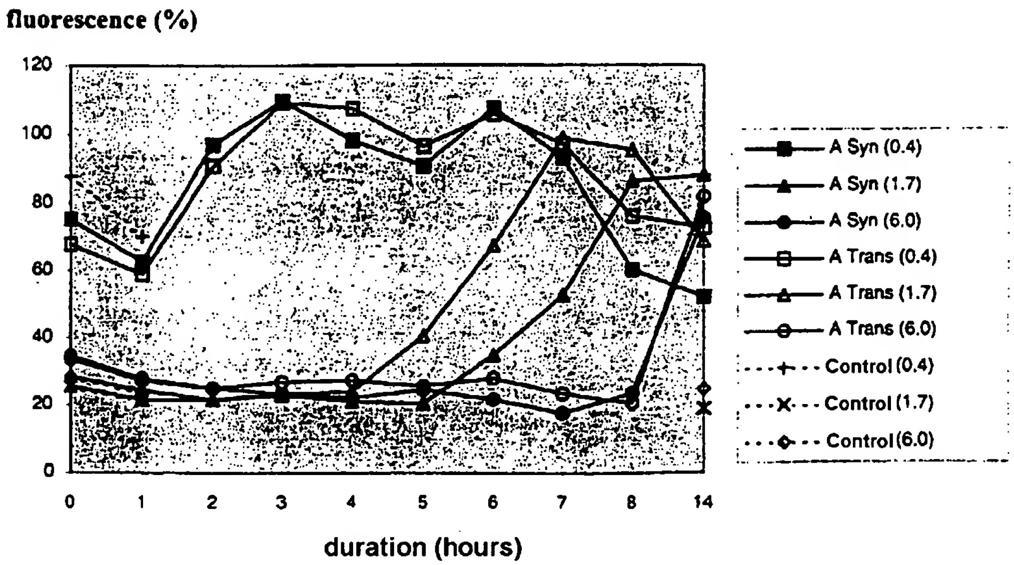
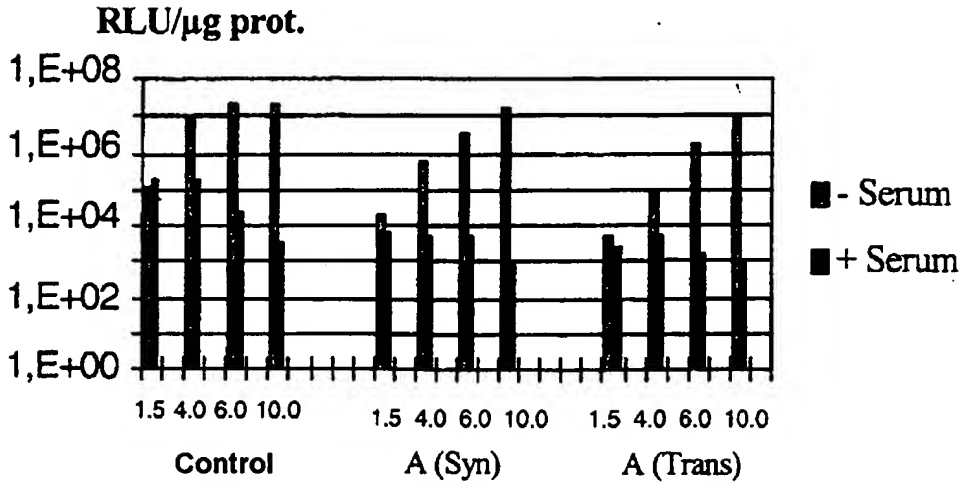


Fig. 2

Efficiency of transfection *in vitro*



DNA/control cationic lipid complexes at different charge ratios

Fig. 3

Stabilization of the nucleolipid complexes by compound C, compound D, BRIJ700 or analog D

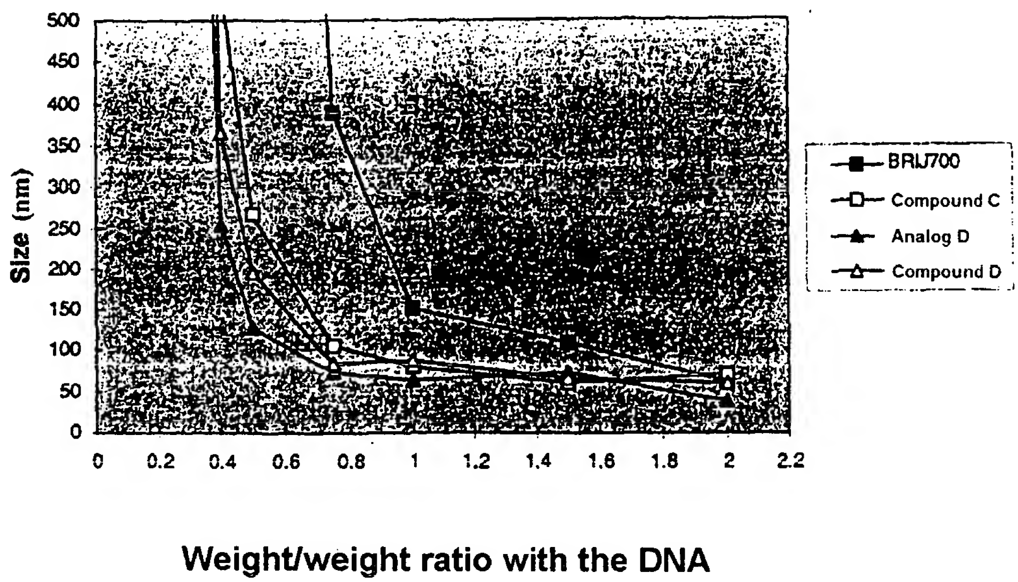


Fig. 4

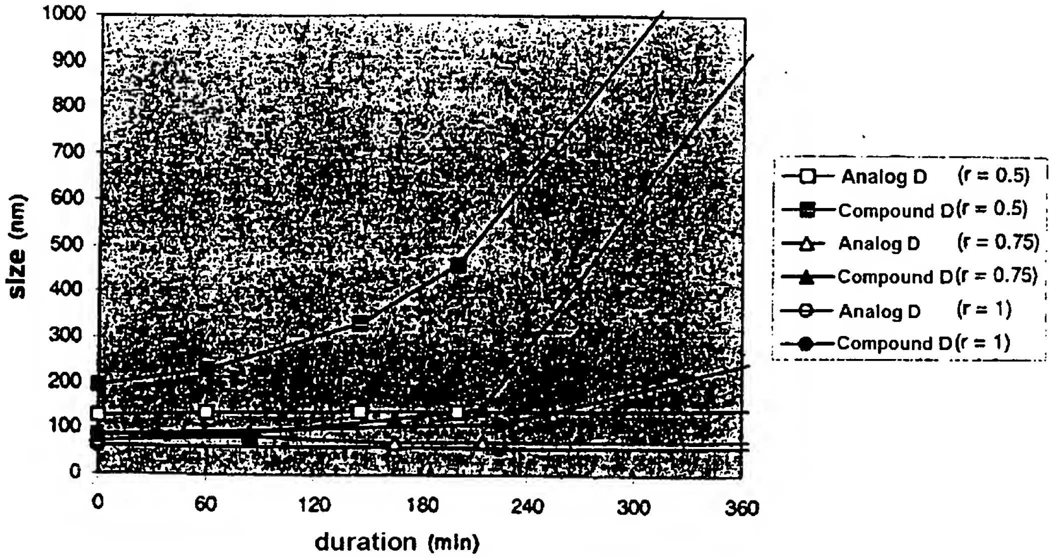

size (nm)
1000
900
800
700
600
500
400
300
200
100
0
0
60
120
180
240
300
360
duration (min)
Analog D (r = 0.5)
Compound D (r = 0.5)
Analog D (r = 0.75)
Compound D (r = 0.75)
Analog D (r = 1)
Compound D (r = 1)

Fig. 5

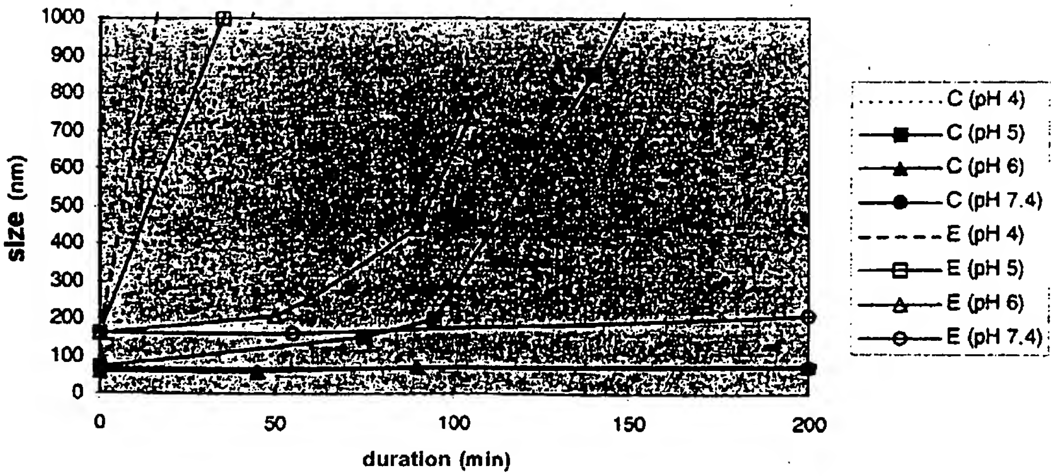
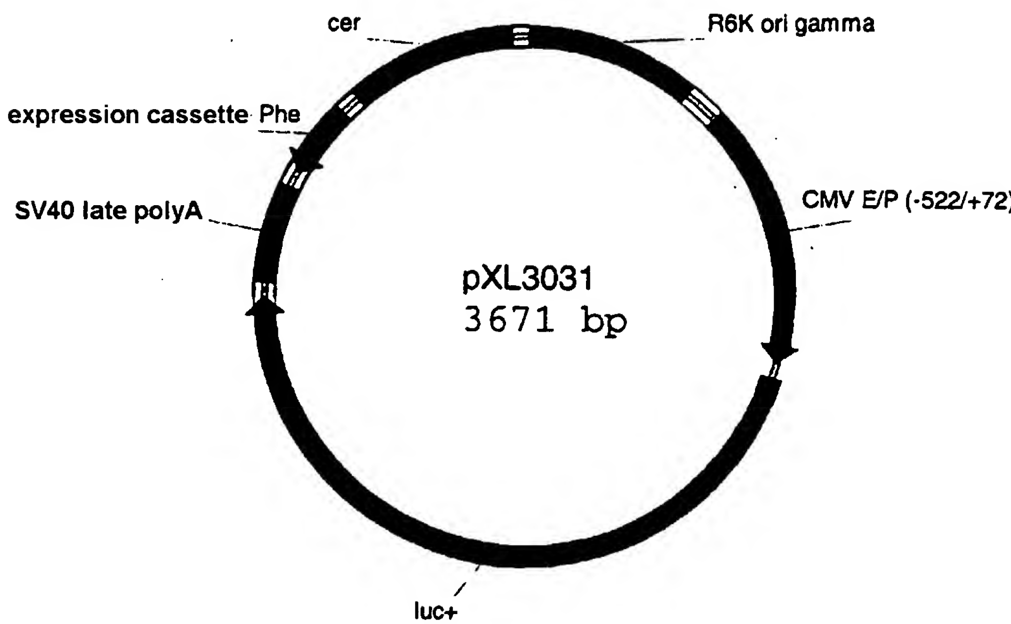

size (nm)
0
100
200
300
400
500
600
700
800
900
1000
0
50
100
150
200
duration (min)
C (pH 4)
C (pH 5)
C (pH 6)
C (pH 7.4)
E (pH 4)
E (pH 5)
E (pH 6)
E (pH 7.4)

Fig. 6



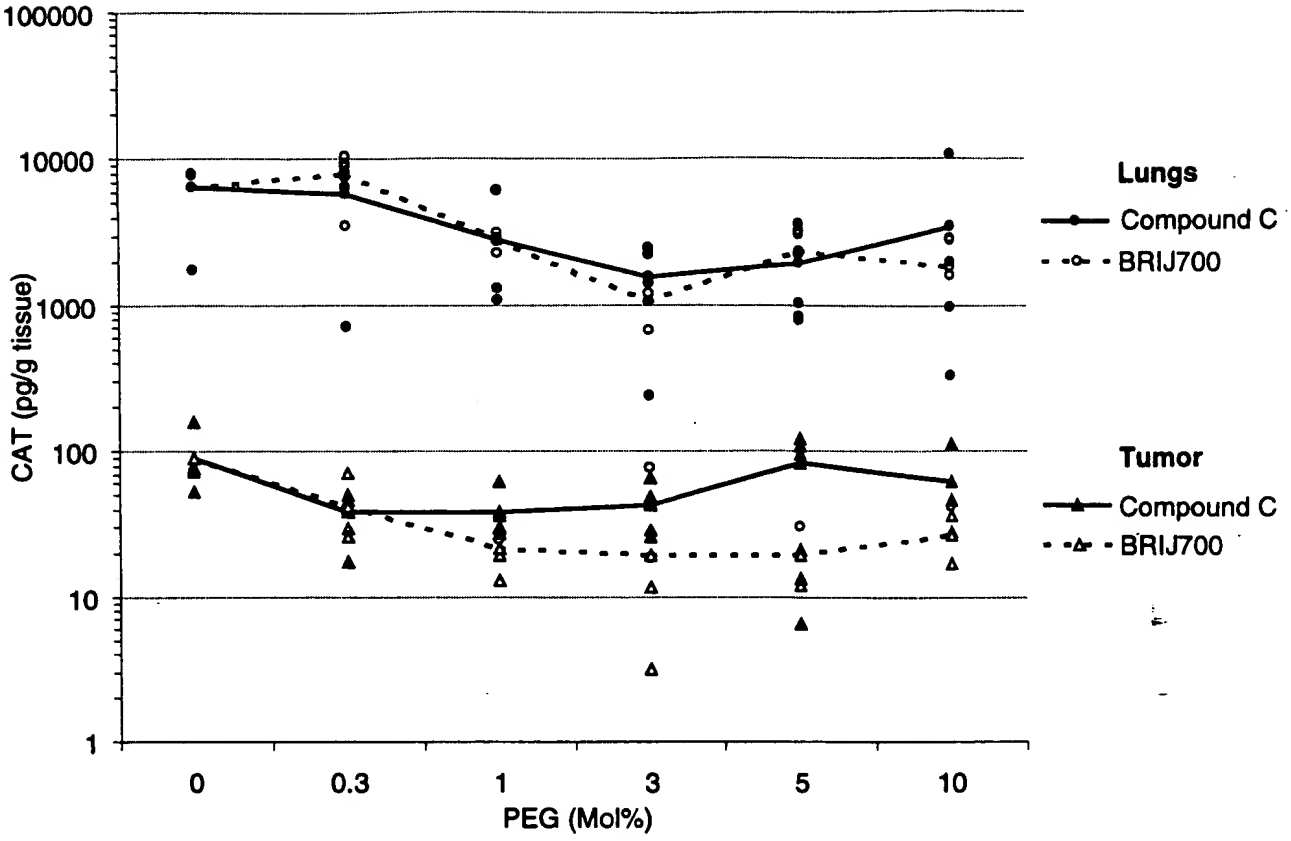


Figure 7: *Dose response of pH labile C18-PEG$_{5000}$ (Compound C) on gene transfer activity in vivo mediated by a cationic lipid/DOPE/DNA (5/5/1) complex. Non-degradable C18-PEG$_{5000}$ (BRIJ700) was used as a negative control. Data are mean (lines) and individual values of 4 Balb/C mice bearing subcutaneous M109 tumor.*

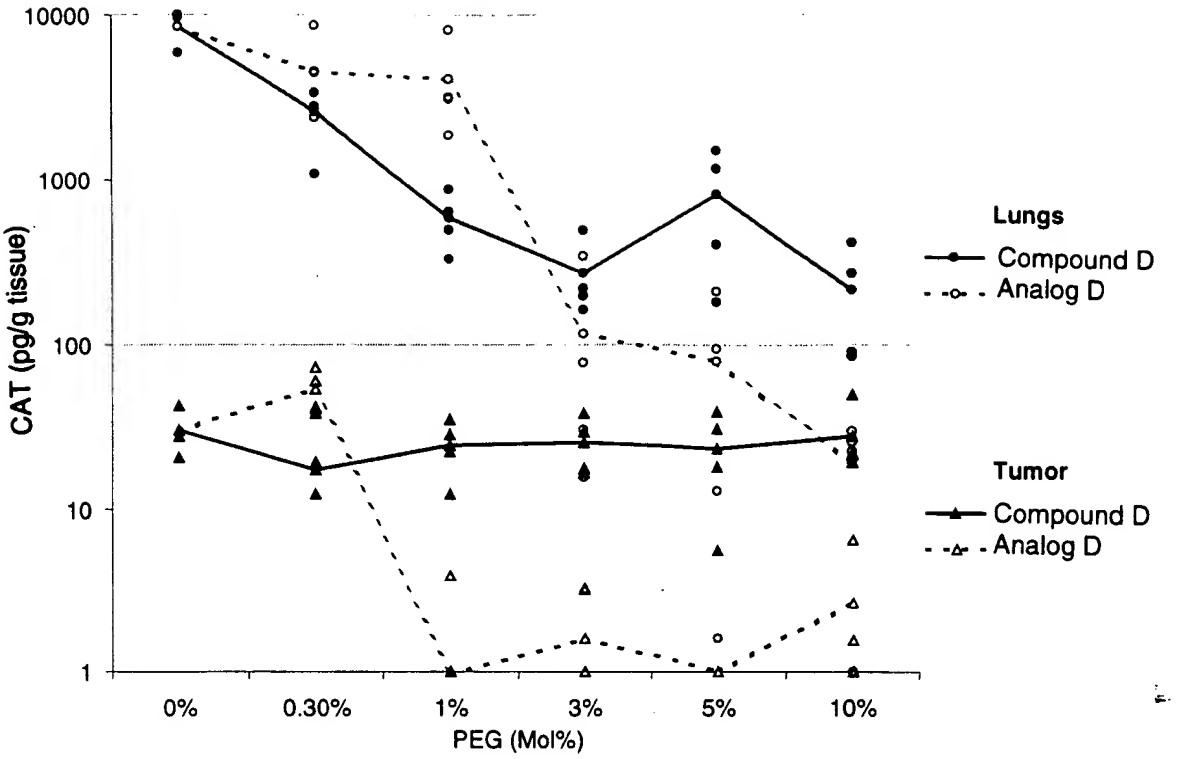


Figure 8: Dose response of pH labile cholesterol-PEG_{5000} (Compound D) on gene transfer activity in vivo mediated by a cationic lipid/DOPE/DNA (5/5/1) complex. Non-degradable cholesterol-PEG_{5000} (Analog D) was used as a negative control. Data are mean (lines) and individual values of 4 Balb/C mice bearing subcutaneous M109 tumor.